FACILITY PERMIT TO OPERATE
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SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Additions are shown as **bold** and underlined and deletions are shown as ~~strikeouts.~~

PROCESS 1		**SYSTEM 5**			
CRUDE DISTILLATION		**NO. 51 VACUUM DISTILLATION UNIT**			
		System Conditions: S11.X1, S13.2, S31.5, **S31.X1**, S56.1			
Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions and Requirements	Conditions
TANK, SURGE, FEED, RPV 6955, WITH GAS BLANKET, LENGTH: 45 FT; DIAMETER: 13 FT A/N: ~~552808~~ **567643**	D35				
POT, STRAINER, LIGHT GAS OIL/DIESEL, RW 7194-289.02, HEIGHT: 4 FT 6 IN; DIAMETER: 2 FT **A/N: 567643**	**DX1**				**L341.X1**
POT, STRAINER, LIGHT GAS OIL/DIESEL, RW 7197-289.02, HEIGHT: 4 FT 6 IN; DIAMETER: 2 FT **A/N: 567643**	**DX2**				**L341.X1**
TOWER, VACUUM, ~~RPV 2501~~ **RW 5967-289.01**, HEIGHT: 135 FT; DIAMETER: 31 FT 6 IN A/N: ~~552808~~ 567643	D2726				**L341.X1**
EJECTOR, RW 247/248, 51 VACUUM TOWER OVERHEAD, 150 PSIG STEAM, 1st STAGE, 2 IN PARALLEL **A/N: 567643**	**DX3**				
EJECTOR, RW 249/250, 51 VACUUM TOWER OVERHEAD, 150 PSIG STEAM, 2nd STAGE, 2 IN PARALLEL **A/N: 567643**	**DX4**				

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SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

EJECTOR, RW 251/252, 51 VACUUM TOWER OVERHEAD, 150 PSIG STEAM, 3rd STAGE, 2 IN PARALLEL **A/N: 567643**	**DX5**				
KNOCK OUT POT, RPV 3240, OFF-GASES, HEIGHT: 8 FT ; DIAMETER: 2 FT A/N: ~~552808~~ **567643**	D38				
DRUM, SEAL, **RW 6927**, LENGTH: 18 FT 6 IN; DIAMETER: 6 FT A/N: ~~552808~~ **567643**	D2727				
POT, BLOWDOWN FLASH, RPV-5550, HEIGHT: 7 FT 8 IN; DIAMETER: 4 FT A/N: ~~552808~~ **567643**	D41				
DRUM, QUENCH, RPV 5546, HEIGHT: 13 FT; DIAMETER: 5 FT A/N: ~~552808~~ **567643**	D42				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: ~~552808~~ **567643**	D2462			**HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**]	~~H23.3~~, **H23.36**
PROCESS 1		**SYSTEM 8**			
CRUDE DISTILLATION		**VACUUM DISTILLATION UNIT HEATERS**			
		System Conditions: S11.X1			
Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions and Requirements	Conditions

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SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

HEATER, NO.51 VACUUM UNIT HEATER, BOX TYPE, NATURAL GAS, ~~REPLACING H-401 AND H-402~~, WITH LOW NOX BURNER, ~~300~~ **360** MMBTU/HR WITH A/N: ~~552828~~ **567649** BURNER, 32 BURNERS, NATURAL GAS, JOHN ZINK, MODEL PSMR-17, WITH LOW NOX BURNER, ~~300~~ **360** MMBTU/HR	D63	C1335	NOX: MAJOR SOURCE**	**CO**: 2000 PPMV (5) [**RULE 407, 4-2-1982**]; **CO: 29.6 LBS/MMSCF NATURAL GAS [RULE 1303(b)(2) -Offset, 5-10-1996]**; **PM**: (9) [**RULE 404, 2-7-1986**]; **PM**: 0.1 GRAINS/SCF (5) [**RULE 409, 8-7-1981**]; **PM: 6.3 LBS/MMSCF NATURAL GAS [RULE 1303(b)(2) -Offset, 5-10-1996]; VOC: 5.9 LBS/MMSCF NATURAL GAS [RULE 1303(b)(2) -Offset, 5-10-1996]; NOX: 2.62 LBS/HR NATURAL GAS (7) [RULE 2005, 6-3-2011]**	A63.30, **A99.X1, A195.X1, C1.X1**, ~~D29.3~~, **D29.X1**, D328.1, K67.2
PROCESS 5		**SYSTEM 2**			
HYDROTREATING		**MID-BARREL DESULFURIZER**			
		System Conditions: S11.X1, S13.2, S15.6, **S31.X1**, S56.1			
Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions and Requirements	Conditions
REACTOR, RPV 3900, HEIGHT: 27 FT 9 IN; DIAMETER: 8 FT 6 IN A/N: ~~553163~~ **578248**	D334				
SCRUBBER, RPV 3901, RECYCLE GAS MDEA, HEIGHT: 59 FT 6 IN; DIAMETER: 4 FT 6 IN A/N: ~~553163~~ **578248**	D335				

SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

COLUMN, STRIPPER, RPV 3902, STABILIZER SIDESTREAM, HEIGHT: 28 FT 6 IN; DIAMETER: 2 FT 6 IN A/N: ~~553163~~ **578248**	D336				
COLUMN, STABILIZER, RPV 3903, DIAMETER: 6 FT/9 FT, HEIGHT: 70 FT 8 IN A/N: ~~553163~~ **578248**	D337				
SCRUBBER, RPV 3904, STABILIZER OFF-GASES MDEA, HEIGHT: 49 FT; DIAMETER: 2 FT 6 IN A/N: ~~553163~~ **578248**	D338				
TANK, FLASH, RPV 3909, REACTOR EFFLUENT, HEIGHT: 20 FT; DIAMETER: 7 FT A/N: ~~553163~~ **578248**	D339				
VESSEL, SEPARATOR, RPV 3910, DESULFURIZER OIL-WATER, LENGTH: 10 FT; DIAMETER: 3 FT A/N: ~~553163~~ **578248**	D340				
ACCUMULATOR, RPV 3911, STABILIZER OVERHEAD, HEIGHT: 10 FT; DIAMETER: 4 FT A/N: ~~553163~~ **578248**	D341				
POT, COMPRESSOR SUCTION, RPV 3912, STABILIZER OFF-GAS, HEIGHT: 4 FT; DIAMETER: 2 FT A/N: ~~553163~~ **578248**	D342				
KNOCK OUT POT, RPV 3913, HYDROGEN FEED GAS, HEIGHT: 4 FT; DIAMETER: 2 FT A/N: ~~553163~~ **578248**	D343				
DRUM, KNOCK OUT, RPV 3915, RECYCLE GAS MDEA, HEIGHT: 7 FT; DIAMETER: 2 FT 6 IN A/N: ~~553163~~ **578248**	D345				

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SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

DRUM, KNOCK OUT, RPV 3916, STABILIZER RELEASE OFF GAS, HEIGHT: 6 FT; DIAMETER: 2 FT A/N: ~~553163~~ **578248**	D346				
VESSEL, SEPARATOR, RPV 3917, STABILIZER OFF-GAS, HEIGHT: 4 FT; DIAMETER: 2 FT A/N: ~~553163~~ **578248**	D347				
FILTER, RPV 5654, FEED S, HEIGHT: 4 FT 5 IN; DIAMETER: 2 FT 6 IN A/N: ~~553163~~ **578248**	D348				
FILTER, RPV 5655, FEED N, HEIGHT: 4 FT 5 IN; DIAMETER: 2 FT 6 IN A/N: ~~553163~~ **578248**	D349				
COMPRESSOR, RW 0033-087.32, THREE STAGE RECYCLE & MAKEUP HYDROGEN, INGERSOLL-RAND 13075 SCFM. WITH PACKED GLAND A/N: ~~553163~~ **578248**	D350				
COMPRESSOR, RW 0036-087.32, THREE STAGE RECYCLE & MAKEUP HYDROGEN, INGERSOLL-RAND 13075 SCFM. WITH PACKED GLAND A/N: ~~553163~~ **578248**	D351				
COMPRESSOR, RW 0035-087.32, OFF GAS, INGERSOLL-RAND 622 SCFM. WITH PACKED GLAND A/N: ~~553163~~ **578248**	D352				
COMPRESSOR, RW 0034-087.32, OFF GAS, INGERSOLL-RAND 622 SCFM. WITH PACKED GLAND A/N: ~~553163~~ **578248**	D353				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: ~~553163~~ **578248**	D2483			**HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-20-2013**]	~~H23.3~~ **H23.36**
PROCESS 5		**SYSTEM 4**			

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SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

HYDROTREATING		**No. 1 LIGHT HYDROTREATING UNIT**			
		System Conditions: S11.X1, S13.2, S15.6, S31.1, **S31.X1**, S56.1			
Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions and Requirements	Conditions
TANK, SURGE, RPV 0207, LENGTH: 30 FT; DIAMETER: 10 FT A/N: ~~552914~~ **567645**	D401				
POT, RPV 3010, STABILIZER REBOILER CONDENSATE, HEIGHT: 2 FT 8 IN; DIAMETER: 1 FT 4 IN A/N: ~~552914~~ **567645**	D402				
REACTOR, RPV 3000, NO.1, HEIGHT: 7 FT 9 IN; DIAMETER: 5 FT 6 IN A/N: ~~552914~~ **567645**	D403				
REACTOR, RPV 3001, NO.2, HEIGHT: 7 FT 9 IN; DIAMETER: 5 FT 6 IN A/N: ~~552914~~ **567645**	D404				
REACTOR, RPV 3002, NO.3, HEIGHT: 9 FT 9 IN; DIAMETER: 5 FT 6 IN A/N: ~~552914~~ **567645**	D405				
TANK, FLASH, RPV 3007, EFFLUENT, LENGTH: 15 FT; DIAMETER: 5 FT A/N: ~~552914~~ **567645**	D406			**BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4 2003**]; **VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**]	H23.12
COLUMN, STABILIZER, RPV 3012, HEIGHT: 49 FT; DIAMETER: 6 FT 6 IN A/N: ~~552914~~ **567645**	D407				

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SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

ACCUMULATOR, RPV 3013, STABILIZER OVERHEAD, HEIGHT: 23 FT 7 IN; DIAMETER: 4 FT A/N: ~~552914~~ **567645**	D408			**BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**]; **VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**]	H23.12
ABSORBER, RPV 3020, HEIGHT: 61 FT 9 IN; DIAMETER: 3 FT A/N: ~~552914~~ **567645**	D411				
VESSEL, MDEA CONTACTOR, RPV 3026, HEIGHT: 37 FT; DIAMETER: 2 FT 6 IN A/N: ~~552914~~ **567645**	D412				
KNOCK OUT POT, RPV 3022, HYDROGEN RELEASE MDEA, HEIGHT: 6 FT; DIAMETER: 2 FT A/N: ~~552914~~ **567645**	D413				
REACTOR, RPV 3027, NO.4, HEIGHT: 14 FT 9 IN; DIAMETER: 5 FT 6 IN A/N: ~~552914~~ **567645**	D414				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: ~~552914~~ **567645**	D2485			**HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**]	~~H23.3~~, **H23.36**
EJECTOR, STEAM, RW0047-154.1, SERVING FLASH DRUM RPV 3007 A/N: ~~552914~~ **567645**	D2648				E193.4
VESSEL, PRODUCT COALESCER, RW 7182 289.02, LENGTH: 6 FT 6.5 IN; DIAMETER: 2 FT 10.25 IN **A/N 567645**	**DX6**				
POT, STABILIZER REBOILER, RPV 3011 **A/N 567645**	**DX7**				
PROCESS 5		**SYSTEM 5**			
HYDROTREATING		**NAPHTHA HDS UNIT**			
		System Conditions: S11.X1, S13.2, **S31.X1**, ~~S46.1~~, ~~S46.2~~, S46.4, S56.1			

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SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions and Requirements	Conditions
TOWER, STRIPPER, RW 5809, DIA: 3 FT 6 IN/6 FT 6 IN, HEIGHT: 54 FT 5 IN A/N: ~~552910~~ **567646**	D1420				
COLUMN, CONTACTOR, RW 5810, RELEASE HYDROGEN MDEA, HEIGHT: 50 FT 11 IN; DIAMETER: 3 FT A/N: ~~552910~~ **567646**	D1421				
REACTOR, RW 5832, HEIGHT: 21 FT 1 IN; DIAMETER: 7 FT A/N: ~~552910~~ **567646**	D1422				
KNOCK OUT POT, RW 5833, MAKE-UP HYDROGEN, HEIGHT: 7 FT 6 IN; DIAMETER: 2 FT A/N: ~~552910~~ **567646**	D1423				
ACCUMULATOR, RW 5836, STRIPPER OVERHEAD, HEIGHT: 13 FT 9 IN; DIAMETER: 4 FT 3 IN A/N: ~~552910~~ **567646**	D1424			**BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**]; **VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**]	H23.12
POT, CONDENSATE, RW 5834, STRIPPER REBOILER, HEIGHT: 3 FT; DIAMETER: 1 FT 6 IN A/N: ~~552910~~ **567646**	D1425				
TANK, FLASH, RW 5838, HEIGHT: 29 FT; DIAMETER: 7 FT A/N: ~~552910~~ **567646**	D1426				
TANK, SURGE, RW 5839, FEED, HEIGHT: 42 FT; DIAMETER: 10 FT A/N: ~~552910~~ **567646**	D1427				

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SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

KNOCK OUT POT, NATURAL GAS FILTER, RW 5837, HEIGHT: 5 FT; DIAMETER: 2 FT A/N: ~~552910~~ **567646**	D1432				
TOWER, ~~DEBUTANIZER, C2~~ DEPENTANIZER, RPV 941, HEIGHT: 127 FT 8 IN; DIAMETER: 9 FT A/N: ~~552971~~ **567646**	**D637**				**L341.X1**
DRUM, ~~MIXED BUTANE FEED,~~ SURGE, DEPENTANIZER BOTTOMS, RPV 955, HEIGHT: 36 FT ; DIAMETER: 11 FT A/N: ~~552971~~ **567646**	**D658**				**L341.X1**
ACCUMULATOR, DEPENTANIZER, OVERHEAD, RPV 942, ~~DEBUTANIZER~~ HEIGHT: 31 FT 6 IN; DIAMETER: 9 FT A/N: ~~552971~~ **567646**	**D656**				**L341.X1**
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: ~~552910~~ **567646**	D2488			**HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**]	~~H23.3~~, **H23.36**
PROCESS 8		**SYSTEM 2**			
HYDROCRACKING		**HYDROCRACKER UNIT(FRACTIONATION SECTION)**			
		System Conditions: S11.X1, S13.2, S15.6, S31.9, S56.1			
Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions and Requirements	Conditions
COLUMN, STRIPPER, RPV 3600, HEAVY HYDROCRACKATE, HEIGHT: 60 FT 6 IN; DIAMETER: 6 FT A/N: ~~552885~~ **578249**	D607				
COLUMN, FRACTIONATOR, RPV 3601, HEIGHT: 136 FT; DIAMETER: 13 FT A/N: ~~552885~~ **578249**	D608				

SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

COLUMN, DEBUTANIZER TOWER, RPV 3603, HEIGHT: 91 FT; DIAMETER: 6 FT A/N: ~~552885~~ **578249**	D610				
COLUMN, TREATER, RPV 3604, LIQUID AMINE, HEIGHT: 27 FT; DIAMETER: 7 FT A/N: ~~552885~~ **578249**	D611				
SCRUBBER, RPV 3605, HEIGHT: 52 FT; DIAMETER: 3 FT A/N: ~~552885~~ **578249**	D612				
SCRUBBER, RPV 3606, AMINE, HEIGHT: 66 FT 6 IN; DIAMETER: 3 FT A/N: ~~552885~~ **578249**	D613				
ACCUMULATOR, RPV 3610, DEBUTANIZER OVERHEAD, LENGTH: 22 FT; DIAMETER: 6 FT A/N: ~~552885~~ **578249**	D614				
ACCUMULATOR, RPV 3611, FRACTIONATOR OVERHEAD, LENGTH: 21 FT; DIAMETER: 7 FT A/N: ~~552885~~ **578249**	D615				
ACCUMULATOR, RPV 3612, FRACTIONATOR HOT REFLUX, LENGTH: 32 FT; DIAMETER: 8 FT A/N: ~~552885~~ **578249**	D616				
SETTLING TANK, RPV 3614, AMINE, LENGTH: 24 FT; DIAMETER: 6 FT 6 IN A/N: ~~552885~~ **578249**	D617				
KNOCK OUT POT, RPV 3617, OVERHEAD GAS, HEIGHT: 10 FT 6 IN; DIAMETER: 3 FT A/N: ~~552885~~ **578249**	D619				

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SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

COMPRESSOR, RW 22 087.32, NO. 3, FRACTIONATOR OVERHEAD GAS, UNIT L-83247 A/N: ~~552885~~ **578249**	D622				
COMPRESSOR, RW 23 087.32, NO. 2, FRACTIONATOR OVERHEAD GAS, UNIT L-83248 A/N: ~~552885~~ **578249**	D623				
COMPRESSOR, RW 24 087.32 NO. 1, FRACTIONATOR OVERHEAD GAS, UNIT L-83249 A/N: ~~552885~~ **578249**	D624				
TOWER, STRIPPER, RPV 6233, DISTILLATE HYDROCRACKATE, HEIGHT: 52 FT 9 IN; DIAMETER: 7 FT A/N: ~~552885~~ **578249**	D2070				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: ~~552885~~ **578249**	D2495			**HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-20-2013**]	~~H23.3~~, **H23.36**
PROCESS 9		**SYSTEM 1**			
ALKYLATION AND POLYMERIZATION		**~~C~~4 ALKYLATION UNIT**			
		System Conditions: S11.X1, S13.2, S15.31, S31.1, **S31.X1**, ~~S46.1~~, S46.4, S56.1			
Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions and Requirements	Conditions
TANK, SETTLING, RPV-5299, ACID, HEIGHT: 70 FT; DIAMETER: 15 FT A/N: ~~553177~~ **567647**	D1479				
TANK, SETTLING, RPV-5300, ACID, HEIGHT: 70 FT; DIAMETER: 15 FT A/N: ~~553177~~ **567647**	D1480				
TANK, SETTLING, RPV-5301, ACID, HEIGHT: 70 FT; DIAMETER: 15 FT A/N: ~~553177~~ **567647**	D1481				

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SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

DRUM, SUCTION TRAP/FLASH, RPV 5303, HEIGHT: 56 FT; DIAMETER: 16 FT A/N: ~~553177~~ **567647**	D1482				
ACCUMULATOR, RPV-5313, REFRIGERANT, HEIGHT: 16 FT 6 IN; DIAMETER: 5 FT 6 IN A/N: ~~553177~~ **567647**	D1483				
VESSEL, COALESCER, RPV-5290, FEED, HEIGHT: 4 FT 4 IN; DIAMETER: 4 FT 6 IN A/N: ~~553177~~ **567647**	D1485				
TANK, WASH, RPV-5316, ACID, HEIGHT: 53 FT; DIAMETER: 16 FT A/N: ~~553177~~ **567647**	D1486				
TANK, WASH, RPV-5317, ALKALINE WATER, LENGTH: 45 FT; DIAMETER: 15 FT A/N: ~~553177~~ **567647**	D1487				
VESSEL, ECONOMIZER, RPV 5310, HEIGHT: 30 FT; DIAMETER: 10 FT A/N: ~~553177~~ **567647**	D1488				
ACCUMULATOR, RPV-5325, DEISOBUTANIZER OVERHEAD, LENGTH: 42 FT; DIAMETER: 14 FT A/N: ~~553177~~ **567647**	D1489				
TANK, WASH, RPV-5314, ALKY, DEPROPANIZER CAUSTIC, LENGTH: 10 FT; DIAMETER: 2 FT A/N: ~~553177~~ **567647**	D1490				
VESSEL, COALESCER, RPV-5315, DEPROPANIZER FEED, LENGTH: 10 FT; DIAMETER: 2 FT A/N: ~~553177~~ **567647**	D1491				
DRUM, K.O., RPV-7135, ACID, HEIGHT: 3 FT 6 IN; DIAMETER: 2 FT A/N: ~~553177~~ **567647**	D1492				

SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

STORAGE TANK, FIXED ROOF, RPV-5380, FRESH ACID, LENGTH: 50 FT; DIAMETER: 13 FT A/N: ~~553177~~ **567647**	D1493				
STORAGE TANK, FIXED ROOF, RPV-5381, FRESH ACID, LENGTH: 50 FT; DIAMETER: 13 FT A/N: ~~553177~~ **567647**	D1494				
TOWER, DEISOBUTANIZER, RPV 5318, HEIGHT: 162 FT 6 IN; DIAMETER: 12 FT 6 IN A/N: ~~553177~~ **567647**	D1495				
REACTOR, CONTACTOR STRATCO, RPV 5291, WITH A 500 H.P. AGITATOR A/N: ~~553177~~ **567647**	D1496				
REACTOR, CONTACTOR STRATCO, RPV 5292, WITH A 500 H.P. AGITATOR A/N: ~~553177~~ **567647**	D1497				
REACTOR, CONTACTOR STRATCO, RPV 5293, WITH A 500 H.P. AGITATOR A/N: ~~553177~~ **567647**	D1498				
REACTOR, CONTACTOR STRATCO, RPV 5294, WITH A 500 H.P. AGITATOR A/N: ~~553177~~ **567647**	D1499				
REACTOR, CONTACTOR STRATCO, RPV 5295, WITH A 500 H.P. AGITATOR A/N: ~~553177~~ **567647**	D1500				
REACTOR, CONTACTOR STRATCO, RPV 5296, WITH A 500 H.P. AGITATOR A/N: ~~553177~~ **567647**	D1501				

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The operator shall comply with the terms and conditions set forth below:

COMPRESSOR, RW 47 087.05, REFRIGERATION (EFFLUENT), CENTRIFUGAL MULTI-STAGE A/N: ~~553177~~ **567647**	D1502				
VESSEL, COALESCER, MEROX SAND FILTER, RPV 5285, HEIGHT: 17 FT 6 IN; DIAMETER: 9 FT 6 IN A/N: ~~553177~~ **567647**	D1520				
TOWER, RW 5965, C5 SIDESTRIPPER FOR DEBUTANIZER, HEIGHT: 32 FT; DIAMETER: 4 FT A/N: ~~553177~~ **567647**	D1522				
TOWER, ALKY DEPROPANIZER, RPV 842, HEIGHT: 76 FT; DIAMETER: 4 FT 6 IN A/N: ~~553177~~ **567647**	D631				
TOWER, ALKY DEBUTANIZER, RPV-843, NO. 1A, HEIGHT: 109 FT 6 IN; DIAMETER: 8 FT A/N: ~~553177~~ **567647**	D632				**L341.X1**
VESSEL, COALESCER, RW 7184-289.02, AMYLENE FEED, HEIGHT: 6 FT 6.5 IN; DIAMETER: 2 FT 8 IN **A/N: 567647**	**DX8**				**L341.X1**
COLUMN, DEISOBUTANIZER, RPV 875, NO.1B, HEIGHT: 120 FT; DIAMETER: 5 FT A/N: ~~553177~~ **567647**	D634				
TANK, SURGE, RPV 0211, NAPHTHA, HEIGHT: 8 FT; DIAMETER: 3 FT 5 IN A/N: ~~553177~~ **567647**	D635				
TOWER, COKER DEPROP, RPV 951, HEIGHT: 75 FT 8 IN; DIAMETER: 4 FT A/N: ~~553177~~ **567647**	D638				

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SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

TANK, SURGE, RPV 830, OLEFIN FEED, HEIGHT: 33 FT; DIAMETER: 10 FT A/N: ~~553177~~ **567647**	D639				
TANK, SURGE, RPV 831, OLEFIN FEED, HEIGHT: 33 FT; DIAMETER: 10 FT A/N: ~~553177~~ **567647**	D640				
TANK, SURGE, RPV 832, OLEFIN FEED, HEIGHT: 33 FT; DIAMETER: 10 FT A/N: ~~553177~~ **567647**	D641				
TANK, EMERGENCY ALKYLATION, RPV 834, HEIGHT: 36 FT; DIAMETER: 8 FT A/N: ~~553177~~ **567647**	D642				
TANK, EMERGENCY ALKYLATION , RPV 835, HEIGHT: 36 FT 6 IN; DIAMETER: 8 FT A/N: ~~553177~~ **567647**	D643				
TANK, EMERGENCY ALKYLATION , RPV 836, HEIGHT: 32 FT; DIAMETER: 8 FT A/N: ~~553177~~ **567647**	D644				
TANK, EMERGENCY ALKYLATION , RPV 837, HEIGHT: 32 FT; DIAMETER: 8 FT A/N: ~~553177~~ **567647**	D645				
ACCUMULATOR, RPV 847, NO. 1A, ALKYLATION DEBUT OVERHEAD, LENGTH: 20 FT; DIAMETER: 5 FT A/N: ~~553177~~ **567647**	D646				
DRUM, SPENT CAUSTIC DEGASSING , RPV 859, LENGTH: 20 FT; DIAMETER: 5 FT A/N: ~~553177~~ **567647**	D647				

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SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

DRUM, DEGASSING, RPV 0884, PROCESS WASTE WATER, HEIGHT: 20 FT 6 IN; DIAMETER: 4 FT 11 IN A/N: ~~553177~~ **567647**	D648				
DRUM, ACID BLOWDOWN NEUTRALIZING, RPV 972, HEIGHT: 10 FT; DIAMETER: 8 FT A/N: ~~553177~~ **567647**	D649				
TANK, SURGE, RPV 890, ISOBUTANE FEED, HEIGHT: 40 FT; DIAMETER: 12 FT 11 IN A/N: ~~553177~~ **567647**	D650				
DRUM, ACID RELIEF BLOWDOWN, RPV 892, LENGTH: 40 FT; DIAMETER: 13 FT A/N: ~~553177~~ **567647**	D651				
DRUM, DEGASSING, RPV-985, MEROX WATER WASH TOWER WATER, LENGTH: 13 FT 6 IN; DIAMETER: 8 FT A/N: ~~553177~~ **567647**	D652				
DRUM, RPV-966, SPENT ACID, LENGTH: 39 FT 6 IN; DIAMETER: 13 FT A/N: ~~553177~~ **567647**	D659				
DRUM, RPV-967, SPENT ACID, LENGTH: 39 FT 6 IN; DIAMETER: 13 FT A/N: ~~553177~~ **567647**	D660				
STORAGE TANK, RPV-969, NO.2 ALKYLATION ACID, LENGTH: 45 FT; DIAMETER: 12 FT A/N: ~~553177~~ **567647**	D661				
STORAGE TANK, RPV-970, NO. A-371, NO.2 ALKYLATION ACID, LENGTH: 45 FT; DIAMETER: 12 FT A/N: ~~553177~~ **567647**	D662				

SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

DRUM, BLOWDOWN, RPV 971, MTBE/MEROX HYDROCARBON, HEIGHT: 10 FT; DIAMETER: 8 FT A/N: ~~553177~~ **567647**	D663				
TOWER, BUTANE MEROX EXTRACTOR, RPV 5360, HEIGHT: 72 FT 6 IN; DIAMETER: 6 FT 6 IN A/N: ~~553177~~ **567647**	D1530				E204.7
TOWER, OXIDIZER, RPV 994, MEROX SOLUTION, HEIGHT: 30 FT; DIAMETER: 3 FT A/N: ~~553177~~ **567647**	D665				
POT, RPV 5385, MEROX CATALYST ADDITION, HEIGHT: 4 FT; DIAMETER: 1 FT A/N: ~~553177~~ **567647**	D666				
DRUM, BLOWDOWN, RPV 891, ACID, LENGTH: 40 FT; DIAMETER: 13 FT A/N: ~~553177~~ **567647**	D667				
DRUM, BLOWDOWN, RPV 989, ALKY HYDROCARBON, HEIGHT: 16 FT 9 IN; DIAMETER: 8 FT 1 IN A/N: ~~553177~~ **567647**	D668				
POT, MEROX FOUL AIR DRIP, RPV 6940, HEIGHT: 7 FT 4 IN; DIAMETER: 2 FT A/N: ~~553177~~ **567647**	D2948				
ACCUMULATOR, RPV 5494, NO. 1, ALKYLATION DEBUT OVERHEAD, LENGTH: 12 FT; DIAMETER: 4 FT A/N: ~~553177~~ **567647**	D670				
DRUM, RPV 5302, ATMOSPHERIC FLASH, HEIGHT: 11 FT 8 IN; DIAMETER: 6 FT 6 IN A/N: ~~553177~~ **567647**	D1527				

SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

KNOCK OUT POT, RPV 5339, DEPROPANIZER OVERHEAD, HEIGHT: 4 FT; DIAMETER: 2 FT A/N: ~~553177~~ **567647**	D1528				
TANK, SURGE, RPV 5350, #314 , COKER DEPROPANIZER FEED, HEIGHT: 30 FT; DIAMETER: 8 FT A/N: ~~553177~~ **567647**	D1529				
KNOCK OUT POT, RPV 5377, COKER DEPROPANIZER, HEIGHT: 11 FT 8 IN; DIAMETER: 6 FT 6 IN A/N: ~~553177~~ **567647**	D1531				
TOWER, RPV 5551, WATER KNOCKOUT DRUM, HEIGHT: 17 FT 9 IN; DIAMETER: 6 FT A/N: ~~553177~~ **567647**	D1532				
KNOCK OUT POT, RW 6929, C4/OLEFIN FEED WATER (TK 311), HEIGHT: 4 FT; DIAMETER: 2 FT A/N: ~~553177~~ **567647**	D2949				
KNOCK OUT POT, RW 6930, C4/OLEFIN FEED WATER (TK 312), HEIGHT: 4 FT; DIAMETER: 2 FT A/N: ~~553177~~ **567647**	D2950				
KNOCK OUT POT, RW 6932, C4/OLEFIN FEED WATER (TK 313), HEIGHT: 4 FT; DIAMETER: 2 FT A/N: ~~553177~~ **567647**	D2951				
KNOCK OUT POT, RPV 5612, IC4/OLEFIN FEED WATER(TK330), HEIGHT: 4 FT; DIAMETER: 1 FT A/N: ~~553177~~ **567647**	D1536				
KNOCK OUT POT, RPV 5614, DEPROPANIZER FEED WATER(TK314), HEIGHT: 3 FT; DIAMETER: 1 FT A/N: ~~553177~~ **567647**	D1538				

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SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

VESSEL, SEPARATOR, RPV 5336, HYDROCARBON/CONDENSATE, HEIGHT: 6 FT 8 IN; DIAMETER: 7 FT 6 IN A/N: ~~553177~~ **567647**	D2019				
ACCUMULATOR, RPV 856, SOLVENT RERUN TOWER OVERHEAD, LENGTH: 20 FT; DIAMETER: 5 FT A/N: ~~553177~~ **567647**	D2044				
REACTOR, CONTACTOR STRATCO 4A, RW 6366, WITH A 500 H.P. AGITATOR A/N: ~~553177~~ **567647**	D2146				
REACTOR, CONTACTOR STRATCO 4B, RW 6367, WITH A 500 H.P. AGITATOR A/N: ~~553177~~ **567647**	D2147				
TANK, SETTLING, RW-6368, ACID, HEIGHT: 70 FT; DIAMETER: 15 FT A/N: ~~553177~~ **567647**	D2148				
TOWER, RPV-5351, MEROX WATER WASH, HEIGHT: 74 FT; DIAMETER: 7 FT A/N: ~~553177~~ **567647**	D1517				
TOWER, MEROX EXTRACTOR, RPV-5284, HEIGHT: 33 FT; DIAMETER: 7 FT A/N: ~~553177~~ **567647**	D1521				
DRUM, WASH NAPHTHA SETTLER, RW 0059, HEIGHT: 10 FT; DIAMETER: 7 FT A/N: ~~553177~~ **567647**	D2369				
VESSEL, COALESCER, RW 6430, MIXED C4 FEED, HEIGHT: 4 FT 4 IN; DIAMETER: 2 FT 8 IN A/N: ~~553177~~ **567647**	D2370				

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SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

DRUM, CAUSTIC PREWASH, RW 6424, HEIGHT: 20 FT; DIAMETER: 11 FT A/N: ~~553177~~ **567647**	D2371				
VESSEL, DISULFIDE SEPARATOR, RW 6425, LENGTH: 24 FT; DIAMETER: 6 FT 6 IN A/N: ~~553177~~ **567647**	D2372	C910 C2413		**HAP**: (10) [**40CFR 63 Subpart CC, #2, 6-23-2003**]	
FILTER, DISULFIDE SAND, RW-6426, HEIGHT: 7 FT; DIAMETER: 2 FT A/N: ~~553177~~ **567647**	D2373				
ACCUMULATOR, RPV-0852, DEPROPANIZER OVERHEAD, HEIGHT: 20 FT; DIAMETER: 5 FT A/N: ~~553177~~ **567647**	D2889				
VESSEL, RPV-5382, ACID RELIEF BLOWDOWN NEUTRALIZING, HEIGHT: 10 FT; DIAMETER: 8 FT A/N: ~~553177~~ **567647**	D2890				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: ~~553177~~ **567647**	D2496			**HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**]	~~H23.3~~, **H23.36**
VESSEL, COALESCER, RW 6889-289.02, NET EFFLUENT/WATER WASH, LENGTH: 13 FT 6 IN; DIAMETER: 6 FT A/N: ~~553177~~ **567647**	D2664				
MIXER, RW 6642-289.02, STATIC, NET EFFLUENT/ACID, DIAMETER: 8 IN A/N: ~~553177~~ **567647**	D2665				
MIXER, RW 6641-289.02, STATIC, NET EFFLUENT/ALKALINE WATER, DIAMETER: 8 IN A/N: ~~553177~~ **567647**	D2666				

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SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

MIXER, RW 6640-289.02, STATIC, NET EFFLUENT/WASH WATER, DIAMETER: 8 IN A/N: ~~553177~~ **567647**	D2667				
PROCESS 9		**SYSTEM 9**			
ALKYLATION AND POLYMERIZATION		**ISO-OCTENE UNIT**			
		System Conditions: S11.X1, S13.2, S31.4, ~~S46.1~~, **S46.4**, S56.1			
Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions and Requirements	Conditions
~~ACCUMULATOR, RPV 942, DEBUTANIZER OVERHEAD, HEIGHT: 31 FT 6 IN; DIAMETER: 9 FT~~ ~~A/N: 552971~~	~~D656~~				
ACCUMULATOR, RPV 952, DEPROPANIZER OVERHEAD, LENGTH: 11 FT 6 IN; DIAMETER: 5 FT A/N: ~~552971~~ **575838**	D657				
VESSEL, VAPORIZER, RPV 3232, NO.2 ALKYLATION AMMONIA, HEIGHT: 5 FT 4 IN; DIAMETER: 4 FT A/N: ~~552971~~ **575838**	D664				
KNOCK OUT POT, VAPOR RECOVERY, RPV-912, HEIGHT: 7 FT; DIAMETER: 5 FT A/N: ~~552971~~ **575838**	D1508				
REACTOR, DIMERIZATION, RPV 5355, HEIGHT: 29 FT; DIAMETER: 12 FT A/N: 552971 **575838**	D2719				~~E336.8~~
KNOCK OUT POT, RPV 5613, MIXED OLEFIN FEED WATER (TK316) A/N: ~~552971~~ **575838**	D1537				

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SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

~~TOWER, DEBUTANIZER, C2 (RPV 941), HEIGHT: 127 FT 8 IN; DIAMETER: 9 FT~~ ~~A/N: 552971~~	~~D637~~				
~~DRUM, RPV 955, MIXED BUTANE FEED, HEIGHT: 36 FT ; DIAMETER: 11 FT~~ ~~A/N: 552971~~	~~D658~~				
DRUM, V-X1, ALCOHOL RECYCLE, HEIGHT: 12 FT; DIAMETER: 3 FT 6 IN A/N: ~~552971~~ **575838**	D2720				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: ~~552971~~ **575838**	D2503			**HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-20-2013**]	H23.3
PROCESS 14		**SYSTEM 11**			
LOADING AND UNLOADING		**LPG RAIL CAR LOADING/UNLOADING RACK**			
		System Conditions: S11.X1, **S31.X1**, ~~S46.2~~, ~~S46.3~~, S46.4, S56.1			
Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions and Requirements	Conditions
LOADING AND UNLOADING ARM, RAIL CAR, EIGHT (8), PROPYLENE/PROPANE/BUTANE, WITH TWO FLEXIBLE HOSES & ONE TWO INCH REPRESSURIZING HOSE TO VRS, DIAMETER: 2 IN A/N: ~~552883~~ **567648**	D2131				
DRUM, SURGE, LPG UNLOADING, RW 7185-289.02, HEIGHT: 26 FT; DIAMETER: 8 FT 6 IN **A/N 567648**	**DX9**				**L341.X1**
DRUM, KNOCKOUT, LPG UNLOADING, RW 7186-289.02, HEIGHT: 8 FT; DIAMETER: 3 FT 6 IN **A/N 567648**	**DX10**				**L341.X1**

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SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

FUGITIVE EMISSIONS, MISCELLANEOUS A/N: ~~552883~~ **567648**	D2539				~~H23.3~~, **H23.36**
PROCESS 19		**SYSTEM 9**			
PETROLEUM MISCELLANEOUS		**REFINERY INTERCONNECTION**			
		System Conditions: S11.X1, S31.X2, S56.1			
Equipment	**ID No.**	**Connected To**	**RECLAIM Source Type/ Monitoring Unit**	**Emissions and Requirements**	**Conditions**
FUGITIVE EMISSIONS, MISCELLANEOUS, REFINERY INTERCONNECTION PIPING, METERING SYSTEM, AND MISCELLANEOUS FUGITIVE COMPONENTS **A/N: 575837**	**DX11**			**HAP: (10) [40CFR 63 Subpart CC, #5A, 6-20-2013]**	**H23.36, L341.X1**
PROCESS 21		**SYSTEM 1**			
AIR POLLUTION CONTROL PROCESS		**SOUTH AREA FLARE SYSTEM**			
		System Conditions: S11.X1, S31.10, S58.2			
Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions and Requirements	Conditions
FLARE, ELEVATED WITH STEAM INJECTION, NATURAL GAS, WITH 3 PILOT ASSEMBLIES,TIE-IN LINE TO FCCU FLARE FROM THE SOUTH UNITS, HEIGHT: 203 FT 6 IN; DIAMETER: 3 FT WITH A/N: ~~571391~~ **575841** BURNER, JOHN ZINK, MODEL STF-S-24	C1302	D809 D815		**CO**: 2000 PPMV (5) [**RULE 407, 4-2-1982**]; **PM**: 0.1 GRAINS/SCF (5) [**RULE 409, 8-7-1981**]	**B61.8,** D12.15, D323.1, E193.3, H23.29, H23.39
KNOCK OUT POT, RPV-0417, HEIGHT: 7 FT; DIAMETER: 5 FT A/N: ~~571391~~ **575841**	D2795				
KNOCK OUT POT, FLARE STACK, HEIGHT: 21 FT 6 IN; DIAMETER: 9 FT A/N: ~~571391~~ **575841**	D1303				

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SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

KNOCK OUT POT, RPV-303, SOUTH AREA FLARE PRIMARY, LENGTH: 40 FT; DIAMETER: 10 FT A/N: ~~571391~~ **575841**	D1304				
DRUM, WATER SEAL, RW 6989, LENGTH: 25 FT; DIAMETER: 13 FT A/N: ~~571391~~ **575841**	D2796				
KNOCK OUT POT, SOUTH FLARE LINE, RPV-1994, HEIGHT: 5 FT 9 IN; DIAMETER: 1 FT 4 IN A/N: ~~571391~~ **575841**	D2809				
KNOCK OUT POT, NORTH FLARE LINE, RPV-1993, HEIGHT: 5 FT 9 IN; DIAMETER: 1 FT 4 IN A/N: ~~571391~~ **575841**	D2810				
VESSEL, AUTOPUMP, SOUTH AREA FLARE, RW-6876-289.09, HEIGHT: 3 FT 11 IN; DIAMETER: 1 FT A/N: ~~571391~~ **575841**	D2863				
VESSEL, AUTOPUMP, SOUTH AREA FLARE, RW-6877-289.09, HEIGHT: 3 FT 11 IN; DIAMETER: 1 FT A/N: ~~571391~~ **575841**	D2864				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: ~~571391~~ **575841**	D2542			**HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-20-2013**]	H23.3
PROCESS 21		**SYSTEM 3**			
AIR POLLUTION CONTROL PROCESS		**HYDROCRACKER FLARE SYSTEM**			
		System Conditions: S11.X1, S31.10, S58.4			
Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions and Requirements	Conditions

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SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

FLARE, ELEVATED WITH STEAM INJECTION, WITH A LIGHT GAS SEAL & 33 STEAM JETS, NATURAL GAS, SERVING AS BACKUP FOR THE UNITS HANDLED BY THE FCCU FLARE, HEIGHT: 161 FT 3 IN; DIAMETER: 2 FT 6 IN WITH A/N: ~~553114~~ **575840** BURNER, JOHN ZINK, MODEL STF-S-30	C1308			**CO**: 2000 PPMV (5) [**RULE 407, 4-2-1982**]; **PM**: 0.1 GRAINS/SCF (5) [**RULE 409, 8-7-1981**]	**B61.8**, D12.15, D323.1, E193.3, E193.25, ~~H23.12~~, H23.29, H23.39
DRUM, FLARE KNOCKOUT, RPV 3212, LENGTH: 12 FT; DIAMETER: 10 FT A/N: ~~553114~~ **575840**	D1309			~~**BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**];~~ ~~**VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**]~~	~~H23.12~~
DRUM, WATER SEAL, RW 7002, LENGTH: 40 FT; DIAMETER: 14 FT A/N: ~~553114~~ **575840**	D2804				
VESSEL, AUTOPUMP, HCU FLARE, RW-6878-289.09, HEIGHT: 3 FT 11 IN; DIAMETER: 1 FT A/N: ~~553114~~ **575840**	D2867				
VESSEL, AUTOPUMP, HCU FLARE, RW-6879-289.09, HEIGHT: 3 FT 11 IN; DIAMETER: 1 FT A/N: ~~553114~~ **575840**	D2868				
MIST ELIMINATOR, RPV-3214, LENGTH: 28 FT 6 IN; DIAMETER: 12 FT A/N: ~~553114~~ **575840**	D1310				
VESSEL, SEPARATOR, RPV 3213, STEAM, HEIGHT: 4 FT; DIAMETER: 2 FT A/N: ~~553114~~ **575840**	D1311				

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SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

DRUM, RPV 3215, OIL ELIMINATOR, HEIGHT: 6 FT; DIAMETER: 5 FT A/N: ~~553114~~ **575840**	D1312				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: ~~553114~~ **575840**	D2544			**HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-20-2013**]	H23.3
PROCESS 21		**SYSTEM 6**			
AIR POLLUTION CONTROL PROCESS		**REFINERY FLARE NO.5 SYSTEM**			
		System Conditions: S11.X1, S31.10, S58.6			
FLARE, ELEVATED WITH STEAM INJECTION, NO.5 , WITH 3 PILOT ASSEMBLIES, FLAME FRONT GENERATOR & FLAME MONITOR, NATURAL GAS, WATER SEAL, MOLECULAR SEAL, REMOTE SMOKE DETECTOR & STEAM INJECTION CONTRL SYS, HEIGHT: 265 FT; DIAMETER: 3 FT 6 IN A/N: ~~553120~~ **575839** **BURNER, FLAREGAS, MODEL 42" FHP**	C1661			**CO**: 2000 PPMV (5) [**RULE 407, 4-2-1982**]; **PM**: 0.1 GRAINS/SCF (5) [**RULE 409, 8-7-1981**]	~~B61.4~~, **B61.8,** D12.15, ~~D90.16~~, D323.1, E193.3, ~~H23.1~~, ~~H23.12~~, H23.29, **H23.39**
KNOCK OUT POT, NO.5 FLARE, RW 6135, HEIGHT: 30 FT; DIAMETER: 12 FT A/N: ~~553120~~ **575839**	D1662			~~**BENZENE**: (10) [**40CFR 61 Subpart FF, #2, 12-4-2003**];~~ ~~**VOC**: 500 PPMV (8) [**40CFR 61 Subpart FF, 12-4-2003**]~~	~~H23.12~~
DRUM, WATER SEAL, RW 7025, LENGTH: 50 FT; DIAMETER: 14 FT A/N: ~~553120~~ **575839**	D2806				
VESSEL, AUTOPUMP, NO. 5 FLARE, RW-6881-289.09, HEIGHT: 3 FT 11 IN; DIAMETER: 1 FT A/N: ~~553120~~ **575839**	D2871				
VESSEL, AUTOPUMP, NO. 5 FLARE, RW-6882-289.09, HEIGHT: 3 FT 11 IN; DIAMETER: 1 FT A/N: ~~553120~~ **575839**	D2872				

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SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS
The operator shall comply with the terms and conditions set forth below:

FUGITIVE EMISSIONS, MISCELLANEOUS A/N: ~~553120~~ **575839**	D2547			**HAP**: (10) [**40CFR 63 Subpart CC, #5A, 6-23-2003**]	H23.3

S11.X1 **The operator shall comply with all applicable mitigation measures stipulated in the "Statement of Findings, Statement of Overriding Considerations, and Mitigation Monitoring Plan" document which is part of the AQMD Certified Final Environmental Impact Report dated " DATE TBD" for this facility.**

The operator shall maintain records in a manner approved by the District , to demonstrate compliance with the applicable measures stipulated in the "Statement of Findings, Statement of Overriding Considerations, and Mitigation Monitoring Plan" document.

This condition shall only apply to equipment listed in Section H of this facility permit.

[CA PRC CEQA, 11-23-1970]

[Systems subject to this condition: Process 1, System 5, 8; Process 5, System 2, 4 , 5; Process 8, System 2; Process 9, System 1, 9; Process 14, System 11; Process 21, System 1, 3, 6]

S13.2 All devices under this system are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1123

[**RULE 1123, 12-7-1990**]

[Systems subject to this condition: Process 1, System 5, 6; Process 5, System 2, 4, 5; Process 8, System 2; Process 9, System 1, 9]

S15.6 The vent gases from all affected devices of this process/system shall be vented as follows:

All sour gases shall be directed to amine contactor system located within this system.

This process/system shall not be operated unless the amine contactor system is in full use and has a valid permit to receive vent gases from this system.

[**RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996**]

SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

[Systems subject to this condition: Process 5, System 2, 4; Process 8, System 2]

S15.31 The vent gases from all affected devices of this process/system shall be vented as follows:

All waste gases generated from this system shall be directed to a thermal oxidizer or fuel gas combustion device which is in full use, has a valid permit to receive vent gases from this system, and complies with all applicable rules and regulations including 40CFR60, Subpart J limits and monitoring requirements.

All waste gas generated from this system shall be considered as fuel gas as defined in 40CFR60, Subpart J. Therefore, the vent gases are, when directed to a thermal oxidizer or fuel gas combustion device, subject to the H2S limits of Subpart J.

[**40CFR 60 Subpart J, 6-24-2008**]

[Systems subject to this condition: Process 9, System 1]

S31.X1 The following BACT requirements shall apply to VOC service fugitive components associated with the devices that are covered by application number(s) 567643, 567645, 567646, 567647, 567648, 578248:

All new valves in VOC service shall be bellows seal valves except: (1) those specifically exempted by Rule 1173; (2) those in heavy liquid service as defined in Rule 1173; or (3) those approved by the District in the following applications: control valves, instrument piping/tubing, applications requiring torsional valve stem motion, applications where valve failure could pose safety hazard (e.g., drain valves with valve stems in horizontal position), retrofits/special applications with space limitations, and valves not commercially available.

All new components in VOC service as defined by Rule 1173, except those specifically exempted by Rule 1173, shall be distinctly identified from other components through their tag numbers (e.g., numbers ending in the letter "N5"), and shall be noted in the records.

All new open-ended lines shall be equipped with cap, blind flange, plug, or a second valve.

All new pressure relief valves shall be connected to closed vent system or equipped with a rupture disc.

All new pumps shall utilize double seals and be connected to a closed vent system.

SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

All new compressors shall be equipped with a seal system with a higher pressure barrier fluid.

All new process drains shall be equipped with water seal, or a closed vent system and control device complying with the requirements of 40CFR60 Subpart QQQ Section 60.692-5.

All new valves and flanges in VOC service as defined by Rule 1173, except those specifically exempted by the rule, shall be inspected monthly using EPA Method 21.

If 98.0 percent or greater of the new non-bellows seal valves and the new flanges population inspected (as an aggregate) is found to leak gaseous or liquid volatile organic compounds at a rate less than 500 ppmv for two consecutive months, then the operator may change leak inspection interval for these components from monthly to quarterly with prior approval of the Executive Officer. The operator shall revert back to monthly inspection interval if less than 98.0 percent of these components is found to leak gaseous or liquid volatile organic compounds at a rate less than 500 ppmv.

The operator shall keep records of the monthly inspection, subsequent repair, and re-inspection, in a manner approved by the District. Records shall be kept and maintained for at least five years, and shall be made available to the Executive Officer upon request.

For all new components in VOC service as defined by Rule 1173, a leak greater than 500 ppm but less than 1,000 ppm, measured as methane above background using EPA Method 21, shall be repaired within 14 days of detection. A leak greater than 1,000 ppm shall be repaired according to Rule 1173.

The operator shall provide to the District, prior to initial startup, a list of all non-leakless type valves that were installed. The list shall include the tag numbers for the valves and reasons why leakless valves were not used. The operator shall also submit a complete as-built piping and instrumentation diagram(s) and copies of requisition data sheets or field inspection surveys for all non-leakless type valves.

The operator shall provide to the District, no later than 90 days after initial startup, a recalculation of the fugitive emissions based on actual components installed and removed from service.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]

SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

[Systems subject to this condition: Process 1, System 5; Process 5, System 2, 4, 5; Process 9, System 1; Process 14, System 11]

S31.X2 **The following BACT requirements shall apply to VOC service fugitive components associated with the devices that are covered by application number(s) 575837:**

All new valves in VOC service shall be bellows seal valves except: (1) those specifically exempted by Rule 1173; (2) those in heavy liquid service as defined in Rule 1173; or (3) those approved by the District in the following applications: control valves, instrument piping/tubing, applications requiring torsional valve stem motion, applications where valve failure could pose safety hazard (e.g., drain valves with valve stems in horizontal position), retrofits/special applications with space limitations, and valves not commercially available.

All new components in VOC service as defined by Rule 1173, except those specifically exempted by Rule 1173, shall be distinctly identified from other components through their tag numbers (e.g., numbers ending in the letter "N2"), and shall be noted in the records.

All new open-ended lines shall be equipped with cap, blind flange, plug, or a second valve.

All new pressure relief valves shall be connected to closed vent system or equipped with a rupture disc.

All new pumps shall utilize double seals and be connected to a closed vent system.

All new compressors shall be equipped with a seal system with a higher pressure barrier fluid.

All new process drains shall be equipped with water seal, or a closed vent system and control device complying with the requirements of 40CFR60 Subpart QQQ Section 60.692-5.

All new valves and flanges in VOC service as defined by Rule 1173, except those specifically exempted by the rule, shall be inspected monthly using EPA Method 21.

If 98.0 percent or greater of the new non-bellows seal valves and the new flanges population inspected (as an aggregate) is found to leak gaseous or liquid volatile organic compounds at a rate less than 200 ppmv for two consecutive months, then the

The operator shall comply with the terms and conditions set forth below:

operator may change leak inspection interval for these components from monthly to quarterly with prior approval of the Executive Officer. The operator shall revert back to monthly inspection interval if less than 98.0 percent of these components is found to leak gaseous or liquid volatile organic compounds at a rate less than 200 ppmv.

The operator shall keep records of the monthly inspection, subsequent repair, and re-inspection, in a manner approved by the District. Records shall be kept and maintained for at least five years, and shall be made available to the Executive Officer upon request.

For all new components in VOC service as defined by Rule 1173, a leak greater than 200 ppm but less than 1,000 ppm, measured as methane above background using EPA Method 21, shall be repaired within 14 days of detection. A leak greater than 1,000 ppm shall be repaired according to Rule 1173.

The operator shall provide to the District, prior to initial startup, a list of all non-leakless type valves that were installed. The list shall include the tag numbers for the valves and reasons why leakless valves were not used. The operator shall also submit a complete as-built piping and instrumentation diagram(s) and copies of requisition data sheets or field inspection surveys for all non-leakless type valves.

The operator shall provide to the District, no later than 90 days after initial startup, a recalculation of the fugitive emissions based on actual components installed and removed from service.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]

[Systems subject to this condition: Process 19, System 9]

S31.4 The following BACT requirements shall apply to VOC service fugitive components associated with the devices that are covered by application number(s) 427414, 376189:

For the purpose of this condition, leakless valve shall be defined as any valve equipped with sealed bellow or equivalent as approved in writing by the District prior to installation. Components shall be defined as any valve, flange, fitting, pump, compressor, pressure relief device, diaphragm, hatch, sight-glass, and meter, which are not exempted by Rule 1173.

The operator shall keep records of the monthly inspection (and quarterly where applicable), subsequent repair, and re-inspection, in a manner approved by the District.

SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

All process drains shall be equipped with water seal, or a closed vent system and control device complying with the requirements of 40CFR60 Subpart QQQ Section 60.692-5.

All components in VOC service, except valves and flanges shall be inspected quarterly using EPA reference method 21. All valves and flanges in VOC service except those specifically exempted by Rule 1173 shall be inspected monthly using EPA Method 21.

If 98.0 percent or greater of the new valve and the new flange population inspected is found to leak gaseous or liquid volatile organic compounds at a rate less than 500 ppm for two consecutive months, then the operator may revert to a quarterly inspection program with the approval of the executive officer. This condition does not apply to leakless valves.

All valves in VOC service shall be of leakless type, except those specifically exempted by Rule 1173 or approved by the District in the following applications: heavy liquid service, control valves, instrument piping/tubing, applications requiring torsional valve stem motion, applications where failures could pose safety hazards (e.g. drain valves with valve stems in horizontal position), retrofits with space limitations, and valves not commercially available.

The operator shall provide to the District, no later than 90 days after initial startup, a recalculation of the fugitive emissions based on actual components installed and removed from service. The operator shall also submit a complete, as built, piping and instrumentation diagram(s) and copies of requisition data sheets for all non-leakless type valves with a listing of tag numbers and reasons why leakless valves were not used.

All open-ended valves shall be equipped with cap, blind flange, plug, or a second valve.

All pressure relief valves shall be connected to closed vent system or equipped with rupture disc.

All sampling connections shall be closed-purge, closed-loop, or closed-vent system.

All components in VOC service, a leak greater than 500 ppm but less than 1,000 ppm measured as methane above background as measured using EPA Method 21, shall be repaired within 14 days of detection. A leak greater than 1,000 ppm shall be repaired according to Rule 1173.

All components are subject to 40CFR60, Subpart GGG

[**RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996**]

FACILITY PERMIT TO OPERATE
TESORO REFINING & MARKETING CO. LLC

SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

[Systems subject to this condition: Process 9, System 9]

S31.5 The following BACT requirements shall apply to VOC service fugitive components associated with the devices that are covered by application number(s) 425810:

For the purpose of this condition, leakless valve shall be defined as any valve equipped with sealed bellow or equivalent as approved in writing by the District prior to installation. Components shall be defined as any valve, flange, fitting, pump, compressor, pressure relief device, diaphragm, hatch, sight-glass, and meter, which are not exempted by Rule 1173.

The operator shall keep records of the monthly inspection (and quarterly where applicable), subsequent repair, and re-inspection, in a manner approved by the District.

All components in VOC service, except valves and flanges, shall be inspected quarterly using EPA reference method 21. All valves and flanges in VOC service, except those specifically exempted by Rule 1173, shall be inspected monthly using EPA Method 21.

If 98.0 percent or greater of the new valve and the new flange population inspected is found to leak gaseous or liquid volatile organic compounds at a rate less than 500 ppm for two consecutive months, then the operator may revert to a quarterly inspection program with the approval of the executive officer. This condition does not apply to leakless valves.

All valves in VOC service shall be of leakless type, except those specifically exempted by Rule 1173 or approved by the District in the following applications: heavy liquid service, control valves, instrument piping/tubing, applications requiring torsional valve stem motion, applications where failures could pose safety hazards (e.g. drain valves with valve stems in horizontal position), retrofits with space limitations, and valves not commercially available.

All open-ended valves shall be equipped with cap, blind flange, plug, or a second valve.

All pressure relief valves shall be connected to closed vent system or equipped with rupture disc.

All sampling connections shall be closed-purge, closed-loop, or closed-vent system.

All components in VOC service, a leak greater than 500 ppm but less than 1,000 ppm measured as methane above background as measured using EPA Method 21, shall be

The operator shall comply with the terms and conditions set forth below:

repaired within 14 days of detection. A leak greater than 1,000 ppm shall be repaired according to Rule 1173.

All components are subject to 40CFR60, Subpart GGG

[**RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996**]

[Systems subject to this condition: Process 1, System 5]

S31.9 The following BACT requirements shall apply to VOC service fugitive components associated with the devices that are covered by application number(s) 450816, 450822, 450823, 450824, 450840, 450841, 502189, 502190:

All open-ended valves shall be equipped with cap, blind flange, plug, or a second valve

All pressure relief valves shall be connected to closed vent system or equipped with rupture disc

All new process drains installed as a result of this project shall be equipped with a water seal

All sampling connections shall be closed-purge, closed-loop, or closed-vent system

All new valves in VOC service installed as a result of this project shall be of leakless type, except those specifically exempted by Rule 1173 or approved by the District in the following applications: heavy liquid service, control valves, instrument piping/tubing, applications requiring torsional valve stem motion, applications where failures could pose safety hazards (e.g. drain valves with valve stems in horizontal position), retrofits with space limitations, and valves not commercially available

For the purpose of this condition, leakless valve shall be defined as any valve equipped with sealed bellow or equivalent as approved in writing by the District prior to installation. Components shall be defined as any valve, flange, fitting, pump, compressor, pressure relief device, diaphragm, hatch, sight-glass, and meter, which are not exempted by Rule 1173

All accessible pumps, compressors, and atmospheric PRDs shall be audio-visually inspected once per 8 hr shift. All accessible components in light liquid/gas/vapor and pumps in heavy liquid service shall be inspected quarterly, except for pumps in light liquid service and valves in gas/vapor or light liquid service which shall be inspected monthly

The operator shall comply with the terms and conditions set forth below:

when required per CFR60 Subpart GGG. All inaccessible or difficult to monitor components in light liquid/gas/vapor service shall be inspected annually

The following leaks shall be repaired within 7 calendar days - All light liquid/gas/vapor components leaking at a rate of 500 to 10,000 ppm, heavy liquid components leaking at rate of 100 to 500 ppm or greater than 3 drops/minute, unless otherwise extended as allowed under Rule 1173. The following leaks shall be repaired within 2 calendar days - any leak between 10,000 to 25,000 ppm, any atmospheric PRD leaking at a rate of 200 to 25,000 ppm, unless otherwise extended as allowed under Rule 1173

The following leaks shall be repaired within 1 calendar day - any leak greater than 25,000 ppm, heavy liquid leak greater than 500 ppm, or light liquid leak greater than 3 drops per minute

If 98.0 percent or greater of the new valve and the new flange population inspected is found to leak gaseous or liquid volatile organic compounds at a rate less than 500 ppm for two consecutive months, the operator may revert to a quarterly inspection program with the approval of the executive officer. This condition does not apply to leakless valves

The operator shall keep records of the monthly inspection (and quarterly where applicable), subsequent repair, and re-inspection, in a manner approved by the District

The operator shall provide to the District, no later than 90 days after initial startup, a recalculation of the fugitive emissions based on actual components installed and removed from service. The operator shall also submit a complete, as built, piping and instrumentation diagram(s) and copies of requisition data sheets for all non-leakless type valves with a listing of tag numbers and reasons why leakless valves were not used

[**RULE 1303(a)(1)-BACT, 5-10-1996**; RULE 1303(a)(1)-BACT, 12-6-2002; **RULE 1303(b)(2)-Offset, 5-10-1996**; RULE 1303(b)(2)-Offset, 12-6-2002]

[Systems subject to this condition: Process 8, System 2]

S31.10 The following BACT requirements shall apply to VOC service fugitive components associated with the devices that are covered by application number(s) 454566, 454568, 458594, 458600, 459257 & 459286:

The operator shall provide to the District, no later than 90 days after initial startup, a recalculation of the fugitive emissions based on actual components installed and removed from service. The valves and flanges shall be categorized by size and service. The operator shall submit a listing of all new non-bellows seal valves which shall be categorized by tag

no., size, type, operating temperature, operating pressure, body material, application, and reasons why bellows seal valves were not used.

All new valves in VOC service, except those specifically exempted by Rule 1173 and those in heavy liquid service as defined in Rule 1173, shall be bellows seal valves, except as approved by the District, in the following applications: heavy liquid service, control valve, instrument piping/tubing, applications requiring torsional valve stem motion, applications where valve failure could pose safety hazard (e.g., drain valves with valve stems in horizontal position), retrofits/special applications with space limitations, and valves not commercially available.

All new valves and major components in VOC service as defined by Rule 1173, except those specifically exempted by Rule 1173 and those in heavy liquid service as defined in Rule 1173, shall be distinctly identified from other components through their tag numbers (e.g., numbers ending in the letter "N"), and shall be noted in the records.

All new components in VOC service as defined in Rule 1173, except valves and flanges, shall be inspected quarterly using EPA reference Method 21. All new valves and flanges in VOC service, except those specifically exempted by Rule 1173, shall be inspected monthly using EPA Method 21.

If 98.0 percent or greater of the new (non-bellows seal) valves and the new flange population inspected is found to leak gaseous or liquid volatile organic compounds at a rate less than 500 ppmv for two consecutive months, then the operator may change to a quarterly inspection program with the approval of the District.

The operator shall revert from quarterly to monthly inspection program if less than 98.0 percent of the new (non-bellows seal) valves and the new flange population inspected is found to leak gaseous or liquid volatile organic compounds at a rate less than 500 ppmv.

All new components in VOC service with a leak greater than 500 ppmv but less than 1,000 ppmv, as methane, measured above background using EPA Method 21 shall be repaired within 14 days of detection. Components shall be defined as any valve, fitting, pump, compressor, pressure relief valve, diaphragm, hatch, sight-glass, and meter, which are not exempted by Rule 1173.

The operator shall keep records of the monthly inspection (quarterly where applicable), subsequent repair, and re-inspection, in a manner approved by the District. Records shall be kept and maintained for at least five years, and shall be made available to the Executive Officer or his authorized representative upon request.

SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

All open-ended valves shall be equipped with cap, blind flange, plug, or a second valve.

All pressure relief valves shall be connected to a closed vent system or equipped with a rupture disc and telltale indicator.

All pumps shall utilize double seals and be connected to a closed vent system.

All compressors to have a seal system with a higher pressure barrier fluid.

[**RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996**]

[Systems subject to this condition: Process 21, System 1, 3, 6]

S46.1 The following conditions shall apply to VOC service fugitive components in this system:

For the purpose of this condition, leakless valve shall be defined as any valve equipped with sealed bellow or equivalent as approved in writing by the District prior to installation. Components shall be defined as any valve, flange, fitting, pump, compressor, pressure relief device, diaphragm, hatch, sight-glass, and meter, which are not exempted by Rule 1173.

For the purpose of this condition, existing component shall be defined as any component that was installed under a permit to construct/operate that was issued prior to June 1, 1993. New component shall be defined as any component that was installed or modified under a permit to construct that was issued between June 1, 1993 and December 27, 2001.

All new valves in VOC service shall be of leakless type, except those specifically exempted by Rule 1173 or approved by the District in the following applications: heavy liquid service, control valves, instrument piping/tubing, applications requiring torsional valve stem motion, applications where failures could pose safety hazards (e.g. drain valves with valve stems in horizontal position), retrofits with space limitations, and valves not commercially available.

All new valves and new major components, as defined in Rule 1173, shall be physically identified in the field with special marking that distinguishes the components from existing. Additionally all new components shall be distinctly identified from existing components through their tag numbers (e.g. numbers ending in the letter "N"), and shall be noted in the records.

All new components in VOC service with a leak greater than 500 ppm but less than 1,000 ppm, as methane, measured above background using EPA Method 21, shall be repaired

The operator shall comply with the terms and conditions set forth below:

within 14 days of detection. A leak greater than 1,000 ppm shall be repaired according to Rule 1173.

All new pressure relief valves shall be connected to closed vent system or equipped with rupture disc.

All new sampling connections shall be closed-purge, closed-loop, or closed-vent system.

All components are subject to 40CFR60, Subpart GGG.

[**RULE 1173, 5-13-1994; RULE 1173, 2-6-2009; RULE 1303(a)(1)-BACT, 5-10-1996;**

RULE 1303(b)(2)-Offset, 5-10-1996; 40CFR 60 Subpart GGG, 6-2-2008]

[Systems subject to this condition: ~~Process 5, System 5; Process 9, System 1, 9~~]

S46.2 The following conditions shall apply to VOC service fugitive components in this system:

For the purpose of this condition, leakless valve shall be defined as any valve equipped with sealed bellow or equivalent as approved in writing by the District prior to installation. Components shall be defined as any valve, flange, fitting, pump, compressor, pressure relief device, diaphragm, hatch, sight-glass, and meter, which are not exempted by Rule 1173.

For the purpose of this condition, existing component shall be defined as any component that was installed under a permit to construct/operate that was issued prior to June 1, 1993. New component shall be defined as any component that was installed or modified under a permit to construct that was issued between June 1, 1993 and December 27, 2001.

The operator shall provide to the District, no later than August 29, 2003, a complete, as built, process instrumentation diagram(s) with a listing showing by functional grouping, location, type, accessibility, and application of each new valve in VOC service. The operator shall provide copies of requisition data sheets for all non-leakless type valves with a listing of tag numbers and reasons why leakless valves were not used.

The operator shall provide to the District, no later than August 29, 2003, a list of the following components broken down into the categories contained in District Form E-18A entitled "Fugitive Component Count": existing components, new components proposed to be installed under applicable permit(s) to construct, and new components that were actually installed under applicable permit(s) to construct.

SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

[**RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996**]

[Systems subject to this condition: ~~Process 5, System 5; Process 14, System 11~~]

S46.3 The following conditions shall apply to VOC service fugitive components in this system:

For the purpose of this condition, leakless valve shall be defined as any valve equipped with sealed bellow or equivalent as approved in writing by the District prior to installation. Components shall be defined as any valve, flange, fitting, pump, compressor, pressure relief device, diaphragm, hatch, sight-glass, and meter, which are not exempted by Rule 1173.

For the purpose of this condition, existing component shall be defined as any component that was installed under a permit to construct/operate that was issued prior to June 1, 1993. New component shall be defined as any component that was installed or modified under a permit to construct that was issued between June 1, 1993 and December 27, 2001.

All new valves in VOC service shall be of leakless type, except those specifically exempted by Rule 1173 or approved by the District in the following applications: heavy liquid service, control valves, instrument piping/tubing, applications requiring torsional valve stem motion, applications where failures could pose safety hazards (e.g. drain valves with valve stems in horizontal position), retrofits with space limitations, and valves not commercially available.

All new valves and new major components, as defined in Rule 1173, shall be physically identified in the field with special marking that distinguishes the components from existing. Additionally all new components shall be distinctly identified from existing components through their tag numbers (e.g. numbers ending in the letter "N"), and shall be noted in the records.

All new components in VOC service with a leak greater than 500 ppm but less than 1,000 ppm, as methane, measured above background using EPA Method 21, shall be repaired within 14 days of detection. A leak greater than 1,000 ppm shall be repaired according to Rule 1173.

All new pressure relief valves shall be connected to closed vent system or equipped with rupture disc.

All new sampling connections shall be closed-purge, closed-loop, or closed-vent system.

SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

[RULE 1173, 5-13-1994; RULE 1173, 2-6-2009; RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996]

[Systems subject to this condition: ~~Process 14, System 11~~]

S46.4 The following conditions shall apply to VOC service fugitive components in this system:

For the purpose of this condition, leakless valve shall be defined as any valve equipped with sealed bellow or equivalent as approved in writing by the District prior to installation. Components shall be defined as any valve, flange, fitting, pump, compressor, pressure relief device, diaphragm, hatch, sight-glass, and meter, which are not exempted by Rule 1173.

For the purpose of this condition, existing component shall be defined as any component that was installed under a permit to construct/operate that was issued prior to June 1, 1993. New component shall be defined as any component that was installed or modified under a permit to construct that was issued on or after June 1, 1993.

All new valves in VOC service shall be of leakless type, except those specifically exempted by Rule 1173 or approved by the District in the following application: heavy liquid service, control valves, instrument piping/tubing, applications requiring torsional valve stem motion, applications where failures could pose safety hazards (e.g. drain valves with valve stem in horizontal position), retrofits with space limitations, and valves not commercially available.

All new valves and new major components, as defined in Rule 1173, shall be physically identified in the field with special marking that distinguishes the components from existing. Additionally all new components shall be distinctly identified from existing components through their tag numbers (e.g. number ending in the letter "N"), and shall be noted in the records.

All new components in VOC service with a leak greater than 500 ppm but less than 1,000 ppm, as methane, measured above background using EPA Method 21, shall be repaired within 14 days of detection. A leak greater than 1,000 ppm shall be repaired according to Rule 1173.

All new pressure relief valves shall be connected to closed vent system or equipped with rupture disc.

All new sampling connections shall be closed-purge, closed-loop, or closed-vent system.

FACILITY PERMIT TO OPERATE
TESORO REFINING & MARKETING CO. LLC

SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

[**RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996**]

[Systems subject to this condition: Process 1, System 6; **Process 5, System 5; Process 9, System 1, 9; Process 14, System 11**]

S56.1 Vent gases from all affected devices of this process/system shall be directed to a gas recovery system, except for the venting of gases from equipment specifically identified in a permit condition, and for the following events for which vent gases may be directed to a flare:

1) Vent gases during an Emergency as defined in Rule 1118;

2) Vent gases resulting from Planned Shutdowns, Startups and/or Turnarounds as defined in Rule 1118, provided that the owner/operator follows the applicable options and any associated limitations to reduce flaring that were identified, evaluated and most recently submitted by the owner/operator to the Executive Officer pursuant to Rule 1118, or any other option(s) which reduces flaring for such events; and

3) Vent gases due to and resulting from an Essential Operating Need, as defined in Rule 1118.

The evaluation of options to reduce flaring during Planned Shutdowns, Startups and/or Turnarounds shall be updated annually to reflect any revisions, and submitted to the Executive Officer in the first quarter of each year, but no later than March 31st of that year.

This process/system shall not be operated unless its designated flare(s) are in full use and have valid permits to receive vent gases from this process/system.

Vent gases shall not be released to the atmosphere except from the existing safety devices or relief valves on the following equipment:

Process 1, System 2: 10, 12, 14
Process 1, System 3: 19, 20, 24 to 26
Process 1, System 5: 35, 39, 41, 42, 2726
Process 1, System 6: 43, 49, 57, 58
Process 1, System 7: 59, 60, 61, 62
Process 2, System 1: 74, 77, 2388
Process 2, System 2: 82, 89, 90, 92, 2389
Process 2, System 3: 94, 95
Process 2, System 5: 98, 101, 102
Process 2, System 6: 111, 112, 113
Process 2, System 11: 159, 160

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SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Process 3, System 1: 164 to 167, 170, 172 to 181, 184, 1336 to 1349, 2382, 2387
Process 3, System 2: 186, 188, 189, 191, 196, 199, 201, 204, 1352 to 1355
Process 3, System 4: 241
Process 3, System 6: 242, 245 to 247, 249
Process 3, System 7: 1363
Process 4, System 1: 253 to 256, 258, 262, 265, 268, 270, 272, 277, 278, 282, 283. 287, 1364, 1366, 1367, 1372, 1374 to 1376, 1378 to 1381
Process 4, System 2: 291, 1400 to 1403
Process 4, System 3: 292, 293, 297, 299
Process 4, System 4: 302, 304
Process 4, System 5: 308, 310, 311
Process 4, System 7: 1975 to 1977, 1980, 1981, 1986
Process 5, System 1: 314 to 317, 319, 320, 323 to 332
Process 5, System 2: 335 to 338, 340, 343, 348 to 353
Process 5, System 3: 356, 360, 1413
Process 5, System 4: 401, 406, 407, 412, 414
Process 6, System 1: 426, 427, 429, 431, 434, 435, 437, 440, 444, 445, 455 to 456, 458, 460
Process 6, System 2: 462, 469, 474 to 475, 477 to 481, 483, 486
Process 6, System 3: 490, 494, 495, 498, 501, 503, 506, 507, 509, 510, 512, 513, 518, 520, 521, 525 to 528
Process 7, System 1: 542 to 548, 550, 552 to 558, 560, 562 to 569
Process 7, System 2: 2892, 2893
Process 8, System 1: 583, 584, 593 to 597
Process 8, System 2: 608, 610, 612 to 614, 622, 624
Process 9, System 1: 631, 632, 638 to 652, 659 to 663, 666 to 668, 1482, 1483, 1486 to 1488, 1491, 1493 to 1495, 1497 to 1502, 1528, 1533 to 1536, 2019
Process 9, System 2: 672 to 681, 685
Process 9, System 9: ~~637~~, 653, ~~656, 658~~, 664
Process 10, System 1: 706
Process 10, System 2: 709, 711 to 715, 720, 721
Process 10, System 3: 725
Process 11, System 1: 730
Process 12, System 1: 756, 759
Process 12, System 2: 760 to 762, 764
Process 12, System 3: 765 to 770
Process 12, System 4: 771, 772, 774
Process 12, System 8: 785, 790, 2365, 2366
Process 12, System 9: 794, 797 to 799
Process 12, System 10: 806
Process 12, System 12: 815, 818

SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Process 12, System13: 823, 826, 828
Process 12, System 16: 830
Process 12, System 22: 853, 854
Process 12, System 24: 860, 861, 863, 864, 865
Process 12, System 25: 866, 867, 869, 870, 871, 2003
Process 12, System 27: 873 to 875
Process 15, System 7: 1644 to 1646, 1648, 1649
Process 16, System 3: 2115 to 2120, 2353, 2394
Process 21, System 1: 1304
Process 21, System 2: 1307
Process 21, System 4: 1315, 1316, 1319, 1323 to 1325, 1659

[**RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996**]

[Systems subject to this condition: Process 1, System 5; Process 5, System 2, 4, 5; Process 8, System 2; Process 9, System 1, 9; Process 14, System 11, **Process 19, System 9**]

S58.2 South Area Flare System (Coker Flare) shall only be used to receive and handle vent gases from the following Process(es) and System(s):

Coking Units (Process: 2, System: 1 & 2)
Coker Blowdown Facility (Process: 2, System: 3)
Coker Gas Compression & Absorption Unit (Process: 2, System: 5)
Blowdown Gas Compression System (Process: 2, System: 6)
Coker Gas Treating/H2S Absorption Unit (Process: 2, System: 11)
Fluid Catalytic Cracking Units (Process: 3, System: 1, 2 & 3)
Propylene Tetramer Unit (Process: 3, System: 6)
Superfractionation Unit (Process: 4, System 1)
Naphtha Splitter Unit (Process: 4, System: 2)
Light Ends Depropanizer Unit (Process: 4, System: 3)
Straight Run Light Ends Depropanizer Unit (Process: 4, System: 4)
North Area De-isobutanizer Unit (Process: 4, System: 5)
Coker Gasoline Fractionation Unit (Process: 4, System: 7)
Liquid Recovery Unit (Process: 4, System: 8)
Light Gasoline Hydrogenation Unit (Process: 5, System: 4)
Catalytic Reformer Units (Process: 6, System: 1, 2, & 3)
Alkylation Unit (Process: 9, System: 1)
Iso-Octene Unit (Process: 9, System: 9)
MDEA Regeneration Units (Process: 12, System: 9, 10, 11, 12, & 13)
North & South Sour Water Treatment Systems (Process: 12, System: 14 & 15)
Sulfur Recovery Units (Process: 13, System: 1, 2, 3, & 4)

SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Claus Tail Gas Treating Units (Process: 13, System: 5 & 7)
Mixed Light Ends Tank Car Loading/Unloading (Process: 14, System: 2)
Refinery Interconnection System (Process 19, System 9)
Refinery Vapor Recovery System (Process: 21, System: 4)
Flare Gas Recovery System (Process: 21, System: 10)

The flare gas recovery system shall be operated in full use when any of the above Process(es) and System(s) is in operation. Full use means one of two compressor trains is online at any given time, except during planned startups or shutdowns when both compressors trains shall be online.

[**RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996**]

[Systems subject to this condition: Process 21, System 1]

S58.4 Hydrocracker Flare System shall only be used to receive and handle vent gases from the following Process(es) and System(s):

Light Ends Depropanizer (Process: 4, System: 3)
Jet Fuel Hydrotreating Unit (Process: 5, System: 1)
Mid-Barrel Desulfurizer Unit (Process: 5, System: 2)
Light Gasoline Hydrogenation Unit (Process: 5, System: 4)
Catalytic Reformer Units (Process: 6, System: 1, 2, & 3)
Hydrogen Plant (Process: 7, System 1)
Hydrocracking Units (Process: 8, System: 1 & 2)
LPG Recovery System (Process: 10, System: 2)
Liquid Petroleum Gas Drying Facilities (Process: 10, System: 3)
MDEA Regeneration Systems (Process: 12, System: 9 & 10)
If HC Flare is being utilized to back up the FCCU Flare, FCCU, FCCU Gas Plant & FCCU Gas Compression Unit (Process: 3, System: 1, 2 & 3)
If HC Flare is being utilized to back up the FCCU Flare, Propylene Tetramer Unit (Process: 3, System: 6)
If HC Flare is being utilized to back up the FCCU Flare, Liquids Recovery Unit (Process: 4, System: 8)
If HC Flare is being utilized to back up the FCCU Flare, Catalytic Polymerization Unit (Process: 9, System: 2)
If HC Flare is being utilized to back up the FCCU Flare, Fuel Gas Mix System (Process: 10, System: 1)
If HC Flare is being utilized to back up the FCCU Flare, North Sour Water Treatment Unit (Process: 12, System: 14)

SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

The flare gas recovery system shall be operated in full use when any of the above Process(es) and System(s) is in operation. Full use means one of two compressor trains is online at any given time, except during planned startups or shutdowns when both compressors trains shall be online.

[**RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996**]

[Systems subject to this condition: Process 21, System 3]

S58.6 Refinery No. 5 Flare System shall only be used to receive and handle vent gases from the following Process(es) and System(s):

No. 1 Crude Unit (Process: 1, System 1)
Superfractionation Unit (Process: 4, System: 1)
Coker Gasoline Fractionation Unit (Process: 4, System: 7)
C3 Splitter Unit (Process: 4, System: 9)
Naphtha HDS Unit (Process: 5, System: 5)
Naphtha HDS Reactor Heater (Process: 5, System: 6)
Hydrogen Plant No. 2 (Process: 7, System: 2)
Alkylation Unit (Process 9, System 1)
C5 Alkylation Depentanizer Unit (Process: 9, System: 6)
C5 Alkylation Unit (Process: 9, System: 7)
Naphtha Isomerization Unit (Process: 9, System: 8)
Butane Isomerization Unit (Process: 9, System: 10)
UOP Merox Unit (Process: 12, System: 8)
LPG Tank Truck Loading/Unloading Rack (Process: 14, System: 10)
LPG Rail Car Loading/Unloading Rack (Process: 14, System: 11)
Flare Gas Recovery System (Process: 21, System: 10)
INEOS POLYPROPYLENE LLC ID 124808 (Process: 1, System: 1, 2, 3, 5, 6, & 9)

The flare gas recovery system shall be operated in full use when any of the above Process(es) and System(s) is in operation. Full use means one of two compressor trains is online at any given time, except during planned startups or shutdowns when both compressors trains shall be online.

[**RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996**]

[Systems subject to this condition: Process 21, System 6]

A63.30 The operator shall limit emissions from this equipment as follows:

FACILITY PERMIT TO OPERATE
TESORO REFINING & MARKETING CO. LLC

SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

CONTAMINANT	EMISSIONS LIMIT
ROG	Less than or equal to ~~36~~ **48.67** LBS PER DAY
CO	Less than or equal to ~~21~~ **243.33** LBS PER DAY
PM	Less than or equal to ~~106~~ **52.14** LBS PER DAY

[**RULE 1303(b)(2)-Offset, 5-10-1996**]

[Devices subject to this condition: D63]

A99.X1 **The 2.62 Lbs/hr NOx emission limit(s) shall not apply when this equipment is operating during startup and shutdown modes.**

Each startup event shall not exceed 48 hours (not including refractory dry out period of up to 48 additional hours) and each shutdown event shall not exceed 24 hours.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition: D63]

A195.X1 **The 2.62 LBS/HR NOx emission limit(s) is averaged over 24 hours.**

[RULE 2005, 6-3-2011]

[Devices subject to this condition: D63]

B61.4 The operator shall not use fuel gas, except uncombined natural gas which is not regulated by the condition, containing the following specified compounds:

COMPOUND	ppm by volume
H2S greater than	160

[**40CFR 60 Subpart J, 6-24-2008**]

[Devices subject to this condition: ~~C1661~~]

B61.8 **The operator shall not use fuel gas containing the following specified compounds:**

FACILITY PERMIT TO OPERATE
TESORO REFINING & MARKETING CO. LLC

SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

COMPOUND	ppm by volume
H2S greater than	162

The 162 ppmv limit is averaged over three hours, excluding any vent gas resulting from an emergency malfunction, process upset or relief valve leakage

[40CFR 60 Subpart Ja, 6-24-2008]

[Devices subject to this condition: C1302, C1308, C1661]

C1.X1 The operator shall limit the heat input to no more than 360 MM Btu per hour.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition: D63]

D12.15 The operator shall install and maintain a(n) thermocouple to accurately indicate the presence of a flame at the pilot light.

The operator shall also install and maintain a device to continuously record the parameter being measured.

Thermocouple shall be the primary pilot flame detector. Infrared/ultraviolet detector may serve as back up detector when thermocouple is taken out of service for maintenance or repair.

[RULE 1118, 11-4-2005; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; 40CFR 60 Subpart A, 4-4-2014]

[Devices subject to this condition: C1302, C1308, C1661]

D29.3 The operator shall conduct source test(s) for the pollutant(s) identified below.

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
ROG emissions	Approved District method	District-approved averaging time	Outlet
PM emissions	District method 5.1	1 hour	Outlet

The test(s) shall be conducted at least once every three years.

SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

The test shall be conducted when the equipment is operating under normal conditions.

The test shall be conducted to demonstrate compliance with the emission limits specified in condition for this equipment.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition: ~~D63~~]

D29.X1 The operator shall conduct source test(s) for the pollutant(s) identified below.

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
ROG emissions	District Method 25.1 or 25.3	District-approved averaging time	Outlet of the SCR serving this equipment
CO emissions	District Method 100.1 or 10.1	District-approved averaging time	Outlet of the SCR serving this equipment
PM emissions	District Method 5.1, 5.2 or 5.3	District-approved averaging time	Outlet of the SCR serving this equipment
NOx emissions	District Method 100.1 or 10.1	District-approved averaging time	Outlet of the SCR serving this equipment

The test(s) shall be conducted within 90 days after achieving maximum production rate, but no later than 180 cumulative days of operation after the date of issuance of the Permit to Construct (A/N 567649) and at least annually thereafter.

The test shall be conducted when this equipment is operating at 80 percent or greater of the maximum design capacity.

The test shall be conducted to determine the oxygen concentration.

For NOx, source test data may be substituted with CEMS data from a RECLAIM certified CEMS.

The test shall be conducted to demonstrate compliance with the emission limits for this equipment including with emissions rates limits for PM, CO, and VOC, in units of lbs/MMscf.

SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

The District shall be notified of the date and time of the test at least 10 days prior to the test.

The test shall be conducted after District approval of a source test protocol submitted in accordance with Section E- Administrative Conditions.

The test shall be conducted and test report submitted to the District in accordance with Section E - Administrative Conditions.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 2005, 4-20-2001; RULE 407, 4-2-1982]

[Devices subject to this condition: D63]

~~D90.16~~ ~~The operator shall periodically monitor the H2S concentration at the inlet of this device according to the following specifications:~~

~~The Alternative Monitoring Plan (AMP) approved by the United States Environmental Protection Agency (USEPA) on March 27, 2008 for the periodic monitoring and reporting of H2S concentration for refinery gas stream to No. 5 Flare~~

~~In addition, the operator shall also comply with all other requirements of the AMP issued by the USEPA on March 27, 2008 for No. 5 Flare~~

~~[**40CFR 60 Subpart A, 6-13-2007; 40CFR 60 Subpart J, 6-24-2008**]~~

~~[Devices subject to this condition: C1661]~~

D323.1 The operator shall conduct an inspection for visible emissions from all stacks and other emission points of this equipment whenever there is a public complaint of visible emissions, whenever visible emissions are observed, and on a bi-weekly basis, at least, unless the equipment did not operate during the entire bi-weekly period. The routine bi-weekly inspection shall be conducted while the equipment is in operation and during daylight hours.

If any visible emissions (not including condensed water vapor) are detected that last more than three minutes in any one hour, the operator shall verify and certify within 24 hours that the equipment causing the emission and any associated air pollution control equipment are operating normally according to their design and standard procedures and under the same conditions under which compliance was achieved in the past, and either:

SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

1). Take corrective action(s) that eliminates the visible emissions within 24 hours and report the visible emissions as a potential deviation in accordance with the reporting requirements in Section K of this permit; or

2). Have a CARB-certified smoke reader determine compliance with the opacity standard, using EPA Method 9 or the procedures in the CARB manual "Visible Emission Evaluation", within three business days and report any deviations to AQMD.

The operator shall keep the records in accordance with the recordkeeping requirements in Section K of this permit and the following records:

1). Stack or emission point identification;

2). Description of any corrective actions taken to abate visible emissions;

3). Date and time visible emission was abated; and

4). All visible emission observation records by operator or a certified smoke reader.

[**RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 401, 3-2-1984;** RULE 401, 11-9-2001]

[Devices subject to this condition: C1302, C1308, C1661]

D328.1 The operator shall determine compliance with the CO emission limit(s) either: (a) conducting a source test at least once every five years using AQMD Method 100.1 or 10.1; or (b) conducting a test at least annually using a portable analyzer and AQMD-approved test method. The test shall be conducted when the equipment is operating under normal conditions to demonstrate compliance with the CO emission limit(s). The operator shall comply with all general testing, reporting, and recordkeeping requirements in Sections E and K of this permit.

[**RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 407, 4-2-1982**]

[Devices subject to this condition: D63]

E193.3 The operator shall operate and maintain this equipment according to the following specifications:

FACILITY PERMIT TO OPERATE
TESORO REFINING & MARKETING CO. LLC

SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

The operator shall comply with all applicable requirements specified in Subpart A of the 40CFR60

[**40CFR 60 Subpart A, 4-4-2014**]

[Devices subject to this condition: C1302, C1308, C1661]

E193.4 The operator shall install this equipment according to the following specifications:

A blind flange shall be installed at the connection to this ejector from the flash drum at a location accessible for inspection.

This equipment shall be operated only during refinery turnaround in accordance with Rule 1123.

[**RULE 1123, 12-7-1990**]

[Devices subject to this condition: D2648]

E193.25 The operator shall restrict the operation of this equipment as follows:

The flare may serve to back up the FCCU Flare only when the FCCU Flare is taken out of service during the planned shutdown periods, and all of the following criteria are met:

The following units shall not be in operation: Hydrocracker Units (Process 8, System 1 & 2), Hydrogen Plant (Process 7, System 1).

When the HC Flare is serving as backup to the FCC Flare, only the following units shall relief to the flare:

Jet Fuel Hydrotreating Unit (Process 5, System 1), Mid-Barrel Desulfurizer Unit (Process 5, System 2), Light Gasoline Hydrogenation Unit (Process 5, System 4), LPG Recovery System (Process 10, System 2), LPG Drying Facilities (Process 10, System 3), Catalytic Reforming Units (Process 6, Systems 1, 2 & 3), MDEA Regeneration Systems No 1 & 2 (Process 12, Systems 9 & 10),

FCCU, FCCU Gas Plant & FCCU Gas Compression Unit (Process 3, Systems 1, 2 & 3), Propylene Tetramer Unit (Process 3, System 6), Liquid Recovery Unit (Process 4, System 8), Catalytic Polymerization Unit (Process 9, System 2), Fuel Gas Mix Drum

SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

System (Process 10, System 1), North Sour Water Treatment Unit (Process 12, System 14).

For No. 9 Cooling Tower failure scenario, the relief loads shall not exceed the hydraulic capacity of the flare. If requested by District personnel, the operator shall provide analysis, or, if one is not available, perform hydraulic modeling analysis of the relief event to demonstrate compliance with this condition.

In No. 9 Cooling Tower failure scenario, only the following units shall relief to the flare: FCCU, FCCU Gas Plant & FCCU Gas Compression (Process 3, Systems 1, 2 & 3) and MDEA Regeneration Systems No. 1 & 2 (Process 12, System 9 & 10).

All other relief events to the flare shall not exceed the smokeless capacity of a flare, which is designed for 417,000 lb/hr, except for periods not to exceed a total of five minutes during any two consecutive hours. If requested by District personnel, the operator shall provide analysis, or, if one is not available, perform hydraulic modeling analysis of the relief event to demonstrate compliance with this condition.

The operator shall not utilize the HC Flare to back up the FCCU Flare for a period greater than 30 days, unless otherwise approved in writing by the Executive Officer.

The operator shall notify the District a minimum of 10 days before the start of the planned shutdown of the FCCU Flare. This notification shall indicate the estimated duration of the shutdown.

[**RULE 1303(b)(2)-Offset, 5-10-1996**]

[Devices subject to this condition: C1308]

E204.7 The operator shall operate the valve to atmosphere according to the following specifications:

The valve shall be kept closed during normal operation and shall only be used for steaming out the tower during turnaround maintenance activities.

[**RULE 1123, 12-7-1990**]

[Devices subject to this condition: D1530]

E336.8 The operator shall vent the vent gases from this equipment as follows:

FACILITY PERMIT TO OPERATE
TESORO REFINING & MARKETING CO. LLC

SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

All emergency vent gases shall be directed to the South Area Flare System (Process 21, System 1).

This equipment shall not be operated unless the flare system is in full use and has a valid permit to receive vent gases from this equipment.

[**RULE 1303(b)(2)-Offset, 5-10-1996**]

[Devices subject to this condition: ~~D2719~~]

H23.1 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
H2S	40CFR60, SUBPART	J

[**40CFR 60 Subpart J, 9-12-2012**]

[Devices subject to this condition: ~~C1661~~]

H23.3 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1173
VOC	40CFR60, SUBPART	GGG

[**RULE 1173, 2-6-2009**; **40 CFR 60 Subpart GGG, 6-2-2008**]

[Devices subject to this condition: ~~D2462, D2483, D2485, D2488, D2495,~~ ~~D2496,~~ D2503, D2542, D2544, D2547, ~~D2539~~]

H23.12 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
Benzene	40CFR61, SUBPART	FF

[**40CFR 61 Subpart FF, 12-4-2003**]

[Devices subject to this condition: D406, D408, D1424, ~~C1308, D1309, C1661, D1662~~]

SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

H23.29 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
SOX	District Rule	1118
VOC	District Rule	1118

[**RULE 1118, 11-4-2005**]

[Devices subject to this condition: C1302, C1308, C1661]

H23.34 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	465
Sulfur Compounds	District Rule	465

[**RULE 465, 8-13-1999**]

[Devices subject to this condition: D2940, D2941, D2942, D2943]

H23.36 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1173
ROG	40CFR60, SUBPART	GGGa

[**RULE 1173, 2-6-2009**; **40CFR 60 Subpart GGGa, 6-2-2008**]

[Devices subject to this condition: **D2462, D2483, D2485, D2488, D2495, D2496, D2539, DX11**]

H23.39 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
H2S	40CFR60, SUBPART	Ja

[**40CFR 60 Subpart Ja, 6-24-2008**]

SECTION H: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

[Devices subject to this condition: C1302, **C1308, C1661**]

K67.2 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Fuel heating value

Fuel rate

[**RULE 1303(b)(2)-Offset, 5-10-1996**]

[Devices subject to this condition: D63]

L341.X1 **Within 90 days after startup of this equipment the following devices shall be removed from operation:**

(D96) FCCU Regenerator at Tesoro LAR Wilmington Operations (Facility ID: 800436)
(D92) H-2 Steam Superheater at Tesoro LAR Wilmington Operations (Facility ID: 800436)
(D112) CO Boiler at Tesoro LAR Wilmington Operations (Facility ID: 800436)
(D89) H-3 Fresh Feed Heater at Tesoro LAR Wilmington Operations (Facility ID: 800436)
(D90) H-4 Hot Oil Loop Reboiler at Tesoro LAR Wilmington Operations (Facility ID: 800436)
(D91) H-5 Fresh Feed Heater at Tesoro LAR Wilmington Operations (Facility ID: 800436)
(D1664) B-1 Startup Heater at Tesoro LAR Wilmington Operations (Facility ID: 800436)

[RULE 1313, 12-7-1995]

[Devices subject to this condition: DX1, DX2, DX8, DX9, DX10, DX11, D632, D637, D658, D656, D2726]